WANDOOR GANITHAM - S S L C UNIT TEST 2021

10.9BE GEOMETRY AND ALGEBRA – ANSWER KEY

Qn no.	Key	Score	
1	**a)** $\frac{0-6}{x-2}=\frac{3}{2}$ ==> $(-2,0)$ **b)** $\frac{y-6}{0-2}=\frac{3}{2}$ ==> $(0,3)$	1 1	2
2	**a)** $(2+5-6\ ,\ 6+4-7)=(1,3)$ **b)** $(2+6-5\ ,\ 6+7-4)=(3,9)$	1 1	2
3	**a)** $\tan 45^0 = 1$ **b)** $\frac{m-0}{3-0}=1$ ==> $m=3$ **c) =** $\frac{7-0}{n-0}=1$ => $n=7$	1 1 1	3
4	**a)** $(\frac{1+9}{2}\ ,\ \frac{4+8}{2})=(5,6)$ **b)** $(\frac{1+3}{2}\ ,\ \frac{8+2}{2})=(2,5)$ **c)** $\sqrt{(5-2)^2+(6-5)^2}=\sqrt{10}$	1 1 1	3
5	**a)** $AB=\sqrt{(5-2)^2+(0-3)^2}=\sqrt{18}$ **c)** $BC=\sqrt{(7-5)^2+(8-0)^2}=\sqrt{68}$ $AC=\sqrt{(7-2)^2+(8-3)^2}=\sqrt{50}$ $AB^2+AC^2=68=BC^2$ **c)** Midpoint of BC = $(\frac{5+7}{2},\frac{0+8}{2})=(6,4)$	1 1 1 1 1	5

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6	**a)** $\frac{1-0}{6-2}=\frac{1}{4}$	**1**	
	b) $\frac{5-4}{5-1}=\frac{1}{4}$	**1**	
	c) $\frac{4-0}{1-2}=-4$	**1**	**5**
	d) $\frac{1}{4} \times (\frac{5-1}{5-6})=-1$	**1**	
	e) $(\frac{5-0}{5-2}) \times (\frac{4-1}{1-6})=-1$	**1**	